ame of Work: "PACKAGE No-06 Developments of roads and rains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), nganayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

"5TH AND FINAL BILL"

EMB

ame of Work: "PACKAGE No-06 Developments of roads and rains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), nganayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

PRE-MEASUREMENT

"5TH AND FINAL BILL"

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Pre ~~Detailed~~ Measurements

Measurement Recorded On: 27-10-23

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
1	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 5.5 m3) as per the direction of Engineer in charge						
	5th Final Bill						
	For RCC Drain						
	Singanayakanahalli Panchayathi						
	Arunadhaya Layout Main Rd LHS						
	CH: 00.00m to 4.00m	1	4.00	1.00	0.80	3.20	
	CH: 4.00m to 34.00m	1	30.00	1.00	0.80	24.00	
	CH: 34.00m to 57.00m	1	23.00	1.00	0.80	18.40	
	CH: 57.00m to 62.80m CD Gap	1	5.80				
	CH: 62.800m to 74.60m	1	11.80	1.00	0.80	9.44	
	CH: 74.60m to 80.50m CD Gap	1	5.90				
	CH: 80.50m to 110.50m	1	30.00	1.00	0.80	24.00	
	CH: 110.50m to 140.50m	1	30.00	1.00	0.80	24.00	
	CH: 140.50m to 144.30m	1	3.80	1.00	0.80	3.04	
	Arunadhaya Layout Main Rd RHS						
	From Culvert						
	CH: 00.00m to 25.00m	1	25.00	1.00	0.80	20.00	
	CH: 25.00m to 29.90m	1	4.90	1.00	0.80	3.92	
	For RCC Culvert						
	Arunadhaya Layout Main Rd LHS						
		1	5.80	1.20	0.75	5.22	
		1	5.90	1.20	0.75	5.31	
					Present Qty	**140.53**	**Cum**
					Qty Paid upto 4th Bill	**2662.47**	**Cum**
					Total Qty	**2803.00**	**Cum**
					Deduct Qty Paid upto 4th Bill	**2662.47**	**Cum**
					Qty to be paid in 5th Final Bill	**140.53**	**Cum**

Cafe Kaveri 27/10/23

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

Contractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

02

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Pre ~~Detailed~~ Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
2	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work as per the direction of Engineer in charge						
					Present Qty	**0.00**	**Cum**
					Qty Paid upto 4th Bill	**13634.28**	**Cum**
					Total Qty	**13634.28**	**Cum**
					Deduct Qty Paid upto 4th Bill	**13634.28**	**Cum**
					Qty to be paid in 5th Final Bill	**0.00**	**Cum**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Pre ~~Detailed~~ Measurements

Measurement Recorded On: 30-10-23

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
3	Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km as per the direction of Engineer in charge						
	5th Final Bill						
	Qty From Item No-1	1	140.53	1.28		179.88	
					Present Qty	**179.88**	**t.km**
					Qty Paid upto 4th Bill	**20859.84**	**t.km**
					Total Qty	**21039.72**	**t.km**
					Deduct Qty Paid upto 4th Bill	**20859.84**	**t.km**
					Qty to be paid in 5th Final Bill	**179.88**	**t.km**

Pre Amount 30/10/23

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ontractor

SILICON CONSULTING ENGINEERS
Consultants

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Hudabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Final ~~Detailed~~ Measurements

Measurement Recorded On: 06-11-23

Sl No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates as per the direction of Engineer in charge						
	5th Final Bill						
	For RCC Drain						
	Singanayakanahalli Panchayathi						
	Arunadhaya Layout Main Rd LHS						
	CH: 00.00m to 4.00m	1	4.00	1.00	0.10	0.40	
	CH: 4.00m to 34.00m	1	30.00	1.00	0.10	3.00	
	CH: 34.00m to 57.00m	1	23.00	1.00	0.10	2.30	
	CH: 57.00m to 62.80m CD Gap	1	5.80				
	CH: 62.800m to 74.60m	1	11.80	1.00	0.15	1.77	
	CH: 74.60m to 80.50m CD Gap	1	5.90				
	CH: 80.50m to 110.50m	1	30.00	1.00	0.15	4.50	
	CH: 110.50m to 140.50m	1	30.00	1.00	0.15	4.50	
	CH: 140.50m to 144.30m	1	3.80	1.00	0.15	0.57	
	Arunadhaya Layout Main Rd RHS						
	From Culvert						
	CH: 00.00m to 25.00m	1	25.00	1.00	0.15	3.75	
	CH: 25.00m to 29.90m	1	4.90	1.00	0.15	0.74	
	For RCC Culvert						
	Arunadhaya Layout Main Rd LHS						
		1	5.80	1.30	0.10	0.75	
		1	5.90	1.30	0.10	0.77	
					Present Qty	**23.05**	**Cum**
					Qty Paid upto 4th Bill	**394.49**	**Cum**
					Total Qty	**417.54**	**Cum**
					Deduct Qty Paid upto 4th Bill	**394.49**	**Cum**
					Qty to be paid in 5th Final Bill	**23.05**	**Cum**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 02

Contractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, adabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits d surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Nre ~~Detailed~~ Measurements

asurement Recorded On: 13-11-23 & 20-11-23

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
5	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates as per the direction of Engineer in charge						
	5th Final Bill						
	For RCC Drain Raft						
	Singanayakanahalli Panchayathi						
	Arunadhaya Layout Main Rd LHS						
	CH: 00.00m to 4.00m	1	4.00	0.90	0.15	0.54	
	CH: 4.00m to 34.00m	1	30.00	0.90	0.15	4.05	
	CH: 34.00m to 57.00m	1	23.00	0.90	0.15	3.11	
	CH: 57.00m to 62.80m CD Gap	1	5.80				
	CH: 62.800m to 74.60m	1	11.80	0.90	0.15	1.59	
	CH: 74.60m to 80.50m CD Gap	1	5.90				
	CH: 80.50m to 110.50m	1	30.00	0.90	0.10	2.70	
	CH: 110.50m to 140.50m	1	30.00	0.90	0.10	2.70	
	CH: 140.50m to 144.30m	1	3.80	0.90	0.15	0.51	
	Arunadhaya Layout Main Rd RHS						
	From Culvert						
	CH: 00.00m to 25.00m	1	25.00	0.90	0.15	3.38	
	CH: 25.00m to 29.90m	1	4.90	0.90	0.15	0.66	
	For RCC Drain Wall						
	Singanayakanahalli Panchayathi						
	Arunadhaya Layout Main Rd LHS						
	CH: 00.00m to 4.00m	2	4.00	0.15	0.55	0.33	
	CH: 4.00m to 34.00m	2	30.00	0.15	0.60	5.40	
	CH: 34.00m to 57.00m	2	23.00	0.15	0.60	4.14	
	CH: 57.00m to 62.80m CD Gap	2	5.80				
	CH: 62.800m to 74.60m	2	11.80	0.15	0.60	2.12	
	CH: 74.60m to 80.50m CD Gap	2	5.90				
	CH: 80.50m to 110.50m	2	30.00	0.15	0.60	5.40	
	CH: 110.50m to 140.50m	2	30.00	0.15	0.60	5.40	
	CH: 140.50m to 144.30m	2	3.80	0.15	0.60	0.68	
	Arunadhaya Layout Main Rd RHS						
	From Culvert						
	CH: 00.00m to 25.00m	2	25.00	0.15	0.55	4.13	

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

46.84

Contractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	H: 25.00m to 29.90m	2	4.90	0.15	0.55	0.81	
						47.65	
	For RCC Culvert Raft						
	Arunadhaya Layout Main Rd LHS						
		1	5.80	1.20	0.20	1.39	
		1	5.90	1.20	0.20	1.42	
	For RCC Culvert Wall						
	Arunadhaya Layout Main Rd LHS						
		2	5.80	0.20	0.45	1.04	
		2	5.90	0.20	0.45	1.06	
						4.91	
					Present Qty	**52.56**	**Cum**
					Qty Paid upto 4th Bill	**730.74**	**Cum**
					Total Qty	**783.30**	**Cum**
					Deduct Qty Paid upto 4th Bill	**730.74**	**Cum**
					Qty to be paid in 5th Final Bill	**52.56**	**Cum**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ntractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

07

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Hadabare, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Final ~~Detailed~~ Measurements

Measurement Recorded On: 07-11-23

Sln	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.as per the direction of Engineer in charge						
	5th Final Bill						
	For RCC Drain						
	Singanayakanahalli Panchayathi						
	Arunadhaya Layout Main Rd LHS						
	Total Drain Length=132.60m						
	Main Bar 10mm dia @130mm c/c						
	d=0.61kg/m						
	Distrubution Bar 10mm dia @160mm c/c						
	d=0.61kg/m						
	No of Main Bars=1020	1020	2.05		0.61	1275.51	
	No of distrubution Bars=12	12	132.60		0.61	970.63	
	Arunadhaya Layout Main Rd RHS						
	Total Drain Length=29.90m						
	Main Bar 10mm dia @130mm c/c						
	d=0.61kg/m						
	Distrubution Bar 10mm dia @160mm c/c						
	d=0.61kg/m						
	No of Main Bars=230	230	2.00		0.61	280.60	
	No of distrubution Bars=12	12	29.90		0.61	218.87	
	For RCC Culvert						
	Total Culvert Length=11.70m						
	Main Bar 12mm dia @140mm c/c						
	d=0.89kg/m						
	Distrubution Bar 10mm dia @200mm c/c						
	d=0.61kg/m						
	No of Main Bars=84*2=167	167	2.10		0.89	312.12	
	No of distrubution Bars=10*2=20	20	11.70		0.61	142.74	
						3200.47	**Kgs**
					Present Qty	**3.20**	**Ton**
					Qty Paid upto 4th Bill	**45.54**	**Ton**
					Total Qty	**48.74**	**Ton**
					Deduct Qty Paid upto 4th Bill	**45.54**	**Ton**
					Qty to be paid in 5th Final Bill	**3.20**	**Ton**

Checked

7/11/23

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 64

tractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadahagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Mrt ~~Detailed~~ Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
9	Providing and fixing pre cast solid cement concrete Kerb stones made out of M20 with top width 100mm and bottom width 150mm respectively,300mm high with CM 1:3 plastering and finishing cutting including from work, curing, including cost of all materials , labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete to be laid between travel lane and Cycle track/Land scape with all lead , lift, loading and unloading complete as per the direction of engineer in charge (from finish concrete and no painting to be done) (Approved Rate)						
	Not Operated						
					Present Qty	**0.00**	**Nos**
					Qty Paid upto 4th Bill	**0.00**	**Nos**
					Total Qty	**0.00**	**Nos**
					Deduct Qty Paid upto 4th Bill	**0.00**	**Nos**
					Qty to be paid in 5th Final Bill	**0.00**	**Nos**
10	Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces as per the direction of Engineer in charge						
	Not Operated						
					Present Qty	**0.00**	**Sqm**
					Qty Paid upto 4th Bill	**0.00**	**Sqm**
					Total Qty	**0.00**	**Sqm**
					Deduct Qty Paid upto 4th Bill	**0.00**	**Sqm**
					Qty to be paid in 5th Final Bill	**0.00**	**Sqm**
11	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m3 in volume and stock piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separatel as per the direction of Engineer in charge						
	Not Operated						
					Present Qty	**0.00**	**Cum**
					Qty Paid upto 4th Bill	**0.00**	**Cum**
					Total Qty	**0.00**	**Cum**
					Deduct Qty Paid upto 4th Bill	**0.00**	**Cum**
					Qty to be paid in 5th Final Bill	**0.00**	**Cum**
12	Construction of Granular Sub-Base of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401 .as per the direction of Engineer in charge						
	~~Not Operated~~						
					Present Qty	**0.00**	**Cum**
					Qty Paid upto 4th Bill	**7233.57**	**Cum**
					Total Qty	**7233.57**	**Cum**
					Deduct Qty Paid upto 4th Bill	**7233.57**	**Cum**
					Qty to be paid in 5th Final Bill	**0.00**	**Cum**

ontractor Consultant Assistant Engineer Assistant Exec. Engineer

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
13	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other						
	~~Not Operated~~						
					Present Qty	**0.00**	**Cum**
					Qty Paid upto 4th Bill	**7233.57**	**Cum**
					Total Qty	**7233.57**	**Cum**
					Deduct Qty Paid upto 4th Bill	**7233.57**	**Cum**
					Qty to be paid in 5th Final Bill	**0.00**	**Cum**
14	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity andappropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes,compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, , primer, sealant , curing of concrete slabs for 14- days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete. as per the directions of the Engineer-in-						
	~~Not Operated~~						
					Present Qty	**0.00**	**Cum**
					Qty Paid upto 4th Bill	**7233.57**	**Cum**
					Total Qty	**7233.57**	**Cum**
					Deduct Qty Paid upto 4th Bill	**7233.57**	**Cum**
					Qty to be paid in 5th Final Bill	**0.00**	**Cum**
15	Supply and fixing of Retro Reflective Single arrow road name sign board of size 2000mm x 900mm made out of retro reflective sheeting conforming to Type XI standards of ASTM D 4956 - 09 & as per IRC 67-2012 for full back ground of blue colour & white letters and fixed over 4 mm thick Aluminium Composite Material sheet having minimum 0.5 mm thick Aluminium skin on both sides with back side painted grey colour and fixed over back support frame SS angle of 15mm x 20mm x 1.2mm, supported by 38mm OD stainless steel pipe all round in 304 grade and 2 nos of vertical posts of 50 mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of properly designed foundation of size 450mm x 450mm x 600mm in 1:1.5:3 ratio cement concrete. The background shall be blue in color with letters and border in white, the item includes earthwork excavation, cost of all materials, loading, unloading, lead, lift, transportation etc., complete. as per clause 6.9 of IRC 67-2012 for Type XI retro reflective sheeting from the sheeting manufacturer & a certified copy of test reports from an independent test laboratory conforming to clause 6.7 of IRC 67-2012 including outdoor weather exposure report for the retro reflective sheeting offered shall be submitted by the contractor for technical qualification in the tender.(Data Rate)						
	Not Operated						
					Present Qty	**0.00**	**Nos**
					Qty Paid upto 4th Bill	**0.00**	**Nos**
					Total Qty	**0.00**	**Nos**
					Deduct Qty Paid upto 4th Bill	**0.00**	**Nos**
					Qty to be paid in 5th Final Bill	**0.00**	**Nos**

ntractor

SILICON CONSULTING ENGINEERS Consultant

Assistant Engineer

Assistant Exec. Engineer

Asst. Executive Engineer
Project Division

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
16	Supply and fixing of Retro Reflective Double arrow road name sign board of size 2000mm x 900mm made out of retro reflective sheeting conforming to Type XI standards of ASTM D 4956 - 09 & as per IRC 67-2012 for full back ground of blue colour & white letters and fixed over 4 mm thick Aluminium Composite Material sheet having minimum 0.5 mm thick Aluminium skin on both sides with back side painted grey colour and fixed over back support frame SS angle of 15mm x 20mm x 1.2mm, supported by 38mm OD stainless steel pipe all round in 304 grade and 2 nos of vertical posts of 50 mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of properly designed foundation of size 450mm x 450mm x 600mm in 1:1.5:3 ratio cement concrete. The background shall be blue in color with letters and border in white, the item includes earthwork excavation, cost of all materials, loading, unloading, lead, lift, transportation etc., complete. as per clause 6.9 of IRC 67-2012 for Type XI retro reflective sheeting from the sheeting manufacturer & a certified copy of test reports from an independent test laboratory conforming to clause 6.7 of IRC 67-2012 including outdoor weather exposure report for the retro reflective sheeting offered shall be submitted by the contractor for technical qualification in the tender (Data Rate)						
	Not Operated						
					Present Qty	**0.00**	**Nos**
					Qty Paid upto 4th Bill	**0.00**	**Nos**
					Total Qty	**0.00**	**Nos**
					Deduct Qty Paid upto 4th Bill	**0.00**	**Nos**
					Qty to be paid in 5th Final Bill	**0.00**	**Nos**

Contractor

Consultant

Assistant Engineer

Asst. Executive Engineer

(1)

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Pre Detailed Measurements

Measurement Recorded On: 13-10-23 , 16-10-23

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
7	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarseaggregates (V-I Page No.15, Item No.2.1.3 of PWD SR 2021-22)						
	5th Final Bill						
	Madivala Machideva sabha Bhavana					1.02	
	Sump tank	1	3.20	3.20	0.10	1.54	
	Madivala Machideva sabha Bhavana						
	For Compound Wall						
	South side	1	16.25	0.75	0.10	1.22	
	East Side	1	5.00	0.75	0.10	0.38	
	North Side	1	15.80	0.75	0.10	1.19	
	Building Allround Passage area						
	South Side	1	16.25	1.15	0.10	1.87	
	East Side	1	13.07	0.75	0.10	0.98	
	North Side	1	5.65	15.80	0.10	8.93	
	West Side	1	14.20	1.00	0.10	1.42	
	Deduct Sump Area	-1	3.00	2.80	0.10	-0.84	
					Present Qty	**16.67**	**Cum**
					Qty Paid upto 4th Bill	**0.00**	**Cum**
					Total Qty	**16.67**	**Cum**
					Deduct Qty Paid upto 4th Bill	**0.00**	**Cum**
					Qty to be paid in 5th Final Bill	**16.67**	**Cum**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

16.16

Contractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, ollara[illegible]tti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

MB Detailed Measurements

Measurement Recorded On: 08-11-23 & 09-11-23

Item No	Discription of Item	No	Length	Avg. B	Depth	Qty	Unit
18	Providing and laying in position Reinforced cement concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates as per the direction of Engineer in charge						
	Footing						
	F1	6	2.90	3.10	0.60	32.36	
	F2	4	2.00	2.30	0.45	8.28	
	F3	4	1.90	2.10	0.35	5.59	
	F4	3	1.20	1.20	0.30	1.30	
	Coloumns Up to Plinth						
	C1	6	0.45	0.60	1.55	2.51	
	C2	8	0.23	0.45	1.70	1.41	
	C3	3	0.23	0.23	1.95	0.31	
	Deduct					-1.40	
					Total Qty	**50.35**	**Cum**
					Deduct Qty Paid upto 4th Bill	**48.67**	**Cum**
					Qty to be paid in 5th Final Bill	**1.68**	**Cum**
					Above 125 %	**1.68**	**Cum**

CRPC Foundry 1/11/23

CRPC Foundry 9/11/23

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ntractor

SILICON CONSULTING ENGINEERS Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

MV - Detailed Measurements

Measurement Recorded On 15-11-23 , 20-11-23

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
19	Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately)M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates as per the direction of Engineer in charge						
	5th Final Bill						
	Madivala Machideva sabha Bhavana						
	Sump tank(Bottom) raft	1	2.60	2.40	0.15	0.94	
	Sump tank Top Slab	1	3.00	2.80	0.15	1.26	
	Plinth Beam						
	PB1	2	10.35	0.23	0.38	1.81	
	PB2	3	10.35	0.23	0.60	4.28	
	PB3	2	14.00	0.23	0.38	2.45	
	Coloumn Above Plinth						
	C1	6	0.45	0.60	2.30	3.73	
	C2	8	0.23	0.45	2.65	2.19	
	C3	3	0.23	0.23	2.45	0.39	
	Lintel Beam						
	MD	1	2.40	0.23	0.20	0.11	
	D1	1	1.20	0.23	0.20	0.06	
	W	12	1.50	0.23	0.20	0.83	
	W2	1	3.40	0.23	0.25	0.20	
	W3	1	2.70	0.23	0.25	0.16	
	V	1	0.75	0.23	0.20	0.03	
	Chajja						
	W	4	1.50	0.60	0.13	0.45	
		3	1.50	0.15	0.13	0.08	
		3	1.50	0.15	0.13	0.08	
	Roof Beam						
		2	10.35	0.23	0.23	1.10	
		3	10.35	0.30	0.60	5.59	
		2	14.00	0.23	0.23	1.48	
		1	9.85	0.23	0.45	1.02	
	Slab	1	14.40	12.75	0.15	27.54	
	Deduct Staircase Area	-1	4.15	2.40	0.15	-1.49	

54.27

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

Staircase						
Waist Slab	1	3.20	0.95	0.13	0.38	
	1	3.00	0.80	0.13	0.30	
Steps	11	0.02	0.95		0.18	
	11	0.02	0.85		0.16	
Landing	1	2.40	0.90	0.15	0.32	
Toilet Portion on SSM Foundation(Coping)	2	3.25	0.45	0.15	0.44	
For Compound Wall Coping						
South side	1	16.25	0.45	0.10	0.73	
East Side	1	5.00	0.45	0.10	0.23	
North Side	1	15.80	0.45	0.10	0.71	
Building Allround Passage area						
South Side	1	16.25	1.15	0.10	1.87	
East Side	1	13.07	0.75	0.10	0.98	
North Side	1	5.65	15.80	0.10	8.93	
West Side	1	14.20	1.00	0.10	1.42	
Deduct Sump Area	1	3.00	2.80	0.10	-0.84	
				Total Qty	**70.08**	**Cum**
				Deduct Qty Paid upto 4th Bill	**7.52**	**Cum**
				Qty to be paid in 5th Final Bill	**62.56**	**Cum**
				Upto 125%	**58.67**	**Cum**
				Above 125%	**3.89**	**Cum**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

69.74
(-) 7.52
62.22

ntractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

PW ~~Detailed~~ Measurements

Measurement Recorded On: 17-10-23

n	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6(1 cement : 6 coarse sand) as per the direction of Engineer in charge						
	For SSM Foundation						
		5	10.35	0.60	0.40	12.42	
		2	12.8	0.60	0.40	6.14	
		5	10.35	0.45	0.40	9.32	
		2	12.8	0.45	0.40	4.61	
	Toilet Portion	2	3.25	0.45	0.40	1.17	
	For Compound Wall						
	South side		16.25	0.45	0.60	4.39	
	East Side		5.00	0.45	0.60	1.35	
	North Side		15.80	0.45	0.60	4.27	
					Total Qty	**43.66**	**Cum**
					Deduct Qty Paid upto 4th Bill	**29.70**	**Cum**
					Qty to be paid in 5th Final Bill	**13.96**	**Cum**

CRPC 17/10/23

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ntractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kudabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Pre Detailed Measurements

Measurement Recorded On: 19-10-23

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
21	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.as per the direction of Engineer in charge.						
	Madivala Machideva sabha Bhavana						
	Footing						
	F1	6	3.10	3.30	2.00	122.76	
	F2	4	2.20	2.50	2.00	44.00	
	F3	4	2.10	2.30	2.00	38.64	
	F4	3	1.4	1.40	2.00	11.76	
	For SSm Foundation						
		5	10.35	0.75	0.75	29.11	
		2	12.5	0.75	0.75	14.06	
	Toilet Portion	2	3.25	0.60	0.6	2.34	
	Deduct PCC Qty from item No-17					-16.67	
	Deduct RCC Qty from item No-18					-51.75	
	Deduct SSM Qty frm item-20					-43.66	
	Add plinth area	1	14.00	9.95	0.30	41.79	
		1	14.00	2.65	0.30	11.13	
					Total Qty	**203.51**	**Cum**
					Deduct Qty Paid upto 4th Bill	**77.80**	**Cum**
					Qty to be paid in 5th Final Bill	**125.71**	**Cum**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

203.67
112.09

ntractor

Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, adabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and rounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Pre ~~Detailed~~ Measurements

surement Recorded On: 27-10-23, 6-11-23, 13-11-23, 17-11-23

Discription of Item	No	Nos	Length	Breadth	Depth	Qty	Unit
Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately) as per the direction of Engineer in charge.							
For Footing							
F1=2.90x3.10m							
12mm dia bar @ 125mm C/c both ways							
2.9/0.125=23Nos	6	23	3.30		0.89	405.31	
3.10/0.125=24 Nos	6	24	3.10		0.89	397.30	
F2=2.00x2.30m							
12mm dia bar @ 150mm C/c both ways							
2.00/0.15=13Nos	4	13	2.50		0.89	115.70	
2.30/0.15=15 Nos	4	15	2.20		0.89	117.48	
F3=1.90x2.10m							
12mm dia bar @ 150mm C/c both ways							
1.90/0.15=12Nos	4	12	2.30		0.89	98.26	
2.10/0.15=14 Nos	4	14	2.10		0.89	104.66	
F3=1.20x1.20m							
12mm dia bar @ 150mm C/c both ways							
1.2/0.15=8Nos	3	8	1.40		0.89	29.90	
1.2/0.15=8Nos	3	8	1.40		0.89	29.90	
For Coloumns							
C1=0.45x0.6m							
10# of 20mm dia bar	6	10	7.60		2.47	1126.32	
Stirrups 8mm dia @ 150mm C/c	6	45	2.00		0.39	210.60	
	6	45	0.90		0.39	94.77	
C2=0.23x0.45m							
8# of 16mm dia bar	8	8	7.60		1.58	768.51	
Stirrups 8mm dia @ 150mm C/c	8	45	1.30		0.39	182.52	
	8	45	0.90		0.39	126.36	
C3=0.23x0.23m							
4# of 12mm dia bar	3	8	7.60		0.89	162.34	
Stirrups 8mm dia @ 150mm C/c	3	45	0.80		0.39	42.12	
Plinth Beam							
PB1 2#12mm dia bar top & bottom	2	4	10.60		0.89	75.47	
2# 12 mm dia Extra bar on top & bottom							
Top bar 0.25 L	2	4	1.00		0.89	7.12	
	2	4	2.00		0.89	14.24	
Bottom Bar	2	6	2.10		0.89	22.43	
Stirrups 8mm dia @ 150mm C/c							
10.2/.15=68Nos	2	68	1.10		0.39	58.34	
						1189.65	

CaFE 27/10/23

CaFE 6/11/23

Asst. Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore - 92

Asst. Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore - 92

ntractor

SILICON CONSULTING ENGINEERS Consultant

Assistant Engineer

Assistant Exec. Engineer

Discription of Item	No	Nos	Length	Breadth	Depth	Qty	Unit
PB2 2#16mm dia bar on top	3	2	10.60		1.58	100.49	
3# 12 mm dia Extra bar on top,Top bar 0.25 L	3	6	2.9		0.89	46.46	
3# 16 mm dia Extra bar in bottom	3	3	10.60		1.58	150.73	
3# 12 mm dia Extra bar on Botom,Top bar 0.75 L	2	3	7.80		0.89	41.65	
Stirrups 8mm dia @ 150mm C/c							
10.2/.15=68Nos	2	68	1.50		0.39	79.56	
PB3 2#12mm dia bar top & bottom							
2# 12 mm dia Extra bar on top & bottom	2	4	14.40		0.89	102.53	
Top bar 0.25 L	2	4	1.00		0.89	7.12	
	3	4	2.00		0.89	21.36	
Bottom extra Bar	2	8	2.10		0.89	29.90	
Stirrups 8mm dia @ 150mm C/c							
14.40/.15=96Nos	2	96	1.10		0.39	82.37	
Lintel							
W 4# 12mm Dia bar	12	4	1.5		0.89	64.08	
Stirrups 8mm dia @ 150mm C/c 1.5/.15=10 Nos	12	10	0.7		0.89	74.76	
MD							
4# 16mm Dia bar	1	4	2.40		1.58	15.17	
Stirrups 8mm dia @ 150mm C/c 2.40/.15=16 Nos	1	16	0.80		0.39	4.99	
D							
W 4# 12mm Dia bar	1	4	1.20		0.89	4.27	
Stirrups 8mm dia @ 150mm C/c 1.2/.15=8 Nos	1	8	0.70		0.39	2.18	
Chajja							
W							
main bar 12mmdia and Distribution 8mm dia bar							
1.5/0.15=10 Nos	4	10.00	0.90		0.89	32.04	
0.6/0.15=4 Nos	4	4	1.50		0.39	9.36	
Roof beam							
B1 2#16mm dia bar top & bottom	1	2	10.60		1.58	33.50	
2# 16 mm dia Extra bar on top & bottom							
Top bar 0.25 L	1	2	1.00		1.58	3.16	
	1	2	2.00		1.58	6.32	
Bottom Bar	1	2	2.10		1.58	6.64	
Stirrups 8mm dia @ 150mm C/c							
10.2/.15=68Nos	2	68	1.10		0.39	58.34	
B1 2#16mm dia bar top & bottom	1	2	13.20		1.58	41.71	
2# 16 mm dia Extra bar on top & bottom							
Top bar 0.25 L	1	2	1.00		1.58	3.16	
	1	2	2.00		1.58	6.32	
Bottom Bar	1	2	2.10		1.58	6.64	
Stirrups 8mm dia @ 150mm C/c							
13.2/.15=88Nos	2	88	1.10		0.39	75.50	
B1 2#16mm dia bar top & bottom							
2# 16 mm dia Extra bar on top & bottom	2	4	14.40		1.58	182.02	
Top bar 0.25 L	2	4	1.00		1.58	12.64	
	2	4	2.00		1.58	25.28	
Bottom extra Bar	2	8	2.10		1.58	53.09	

G = 1189.65

5372.99

Asst. Executive Engineer
Project Division
Yelahanka Zone - 92
BBMP, Bangalore

itractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

Discription of Item	No	Nos	Length	Breadth	Depth	Qty	Unit
Stirrups 8mm dia @ 150mm C/c							
14.40/ 15=96Nos	2	96	1.10		0.39	82.37	
B2 3#25mm dia bar on top	3	3	10.60		3.85	367.29	
3# 25 mm dia Extra bar on top, Top bar 0.25 L	3	3	2.90		3.85	100.49	
3# 25 mm dia Extra bar on bottom	3	3	10.60		3.85	367.29	
3# 25 mm dia Extra bar on Botom, Top bar 0.75 L	3	3	7.80		3.85	270.27	
Stirrups 8mm dia @ 150mm C/c							
10.2/ 15=68Nos	3	68	2.00		0.39	159.12	
B3 3#16mm dia bar top & bottom	1	3	10.00		1.58	47.40	
3# 16 mm dia Extra bar on top & bottom							
Top bar 0.25 L	1	3	1.00		1.58	4.74	
	1	3	2.00		1.58	9.48	
Bottom Bar	1	3	2.10		1.58	9.95	
Stirrups 8mm dia @ 150mm C/c							
10/ 15=66Nos	2	66	1.10		0.39	56.63	
For Roof							
Shorter Span 10mm @150mm C/c							
14.40/0.15=96 Nos	96		10.40		0.61	609.02	
Shartor Span 8mm @125mm C/c							
10.4/0.15=83 Nos	83		14.40		0.39	466.13	
For Varahnada Slab							
10/ 15=66Nos	66		2.60		0.61	104.68	
2.6/0.125=20 Nos	20		10.00		0.39	78.00	
					Present Qty	**8305.84**	**Kgs**
					Deduct Qty Paid upto 4th Bill	**2806.81**	**Kgs**
					Qty to be paid in 5th Final Bill	**5499.03**	**Kgs**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

actor

Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Marchohalli, Kadabagere, Dollarghatti (Kirthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

(Ty. ~~Detailed~~ Measurements

Measurement Recorded On 01-12-23

Item No	Description of Item	No	Length	Avg. B	Depth	Qty	Unit
23	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications, as per the direction of Engineer in charge						
	5th Final Bill						
	Madivala Machideva sabha Bhavana						
	Sump tank						
		2	3.00		1.50	9.00	
		2	2.40		1.50	7.20	
	Hall	1	14.80		2.65	39.22	
		1	14.80		2.65	39.22	
		1	9.55		2.65	25.31	
		1	9.55		2.65	25.31	
	Staircase Side Wall	2	4.15		2.45	20.34	
	Deduct openings						
	Deduct Openings						
	MD	-1	2.00		2.05	-4.10	
	W		1.20		1.20	-17.28	
	W2		2.85		0.65	-1.85	
	V		0.60		0.60	-0.36	
					Present Qty	**142.00**	**Sqm**
					Qty Paid upto 4th Bill	**0.00**	**Sqm**
					Total Qty	**142.00**	**Sqm**
					Deduct Qty Paid upto 4th Bill	**0.00**	**Sqm**
					Qty to be paid in 5th Final Bill	**142.00**	**Sqm**

Cafe Kavanaloke 1/12/23

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ntractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 4-12-23

Sl No	Discription of Item	No	Length	Avg. B	Depth	Qty	Unit
4	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x100x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.(V-II Page No.17, Item No.6.34 of PWD SR 2021-22)						
	5th Final Bill						
	Madivala Machideva sabha Bhavana						
	Toilet Portion						
		1	3.25		2.10	6.83	
		1	2.35		2.10	4.94	
		1	2.18		3.00	6.54	
		1	0.60		2.10	1.26	
		1	0.60		2.10	1.26	
		1	0.75		2.10	1.58	
	Deduct D1	-1	0.90		2.05	-1.85	
	Parapet Wall						
	South side	1	14.40		0.90	12.96	
	East Side	1	12.80		0.90	11.52	
	North Side Wall	1	14.40		3.50	50.40	
	Deduct Ms Pipe Portion	-1	3.50		2.00	-7.00	
		-1	3.15		2.00	-6.30	
	West Side	1	12.80		0.90	11.52	
	Staircase SideWall parapet	1	2.80		0.90	2.52	
	For Compound Wall						
	South side	1	16.25		1.20	19.50	
	East Side	1	5.00		1.20	6.00	
	North Side	1	15.80		1.12	17.70	
					Present Qty	**139.37**	**Sqm**
					Qty Paid upto 4th Bill	**0.00**	**Sqm**
					Total Qty	**139.37**	**Sqm**
					Deduct Qty Paid upto 4th Bill	**0.00**	**Sqm**
					Qty to be paid in 5th Final Bill	**139.37**	**Sqm**
					Upto 125%	**64.00**	**Sqm**
					Above 125%	**75.37**	**Sqm**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

SILICON CONSULTING ENGINEERS Consultants

Assistant Engineer

Assistant Exec. Engineer

ame of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, llarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

asurement Recorded On: 05-12-23

m o	Discription of Item	No	Length	Avg. B	Depth	Qty	Unit
5	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in charge. Concealed work, including cutting chases and making good the walls etc. 25mm nominal dia pipes as per the direction of Engineer in charge.						
	5th Final Bill						
	Madivala Machideva sabha Bhavana						
	Sump to over head tank	1	29.00			29.00	
					Present Qty	**29.00**	**mtr**
					Qty Paid upto 4th Bill	**0.00**	**mtr**
					Total Qty	**29.00**	**mtr**
					Deduct Qty Paid upto 4th Bill	**0.00**	**mtr**
					Qty to be paid in 5th Final Bill	**29.00**	**mtr**

5/12/23

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

tractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, ollarapatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

surement Recorded On: 05-12-23

Discription of Item	No	Length	Avg. B	Depth	Qty	Unit
Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in charge. Concealed work, including cutting chases and making good the walls etc. 20mm nominal dia pipes as per the direction of Engineer in charge.						
5th Final Bill						
Madivala Machideva sabha Bhavana						
Tank to Toilet and inside Connection	1	23.00			23.00	
Tank to Varahnda	1	15.00			15.00	
				Present Qty	**38.00**	**Sqm**
				Qty Paid upto 4th Bill	**0.00**	**Sqm**
				Total Qty	**38.00**	**Sqm**
				Deduct Qty Paid upto 4th Bill	**0.00**	**Sqm**
				Qty to be paid in 5th Final Bill	**38.00**	**Sqm**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ntractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

me of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, abagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

rement Recorded On: 05-12-23

	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Supplying PVC ringtite pipes conforming to IS 4985:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading unloading at both destinations and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approved type, with all labour with all lead & lift including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing) etc. for:PVC						
	5th Final Bill						
	Madivala Machideva sabha Bhavana						
	On terrace Rain water pipe	4			3.00	12.00	
					Present Qty	**12.00**	**Mtr**
					Qty Paid upto 4th Bill	**0.00**	**Mtr**
					Total Qty	**12.00**	**Mtr**
					Deduct Qty Paid upto 4th Bill	**0.00**	**Mtr**
					Qty to be paid in 5th Final Bill	**12.00**	**Mtr**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ractor

SILICON CONSULTING ENGINEERS Consultants

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, ollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 06-12-23

m o	Discription of Item	No	Length	Avg. B	Depth	Qty	Unit
6	Concealed Conduit System Supplying heavy gauge PVC conduit pipe 19/20mm dia 2mm thick conforming to IS 2509 with suitable size bends, metal/PVC junction boxes adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipes ends should be covred using PVC end enclosures. run with 18SWG GI fish wire wherever necessary.19/20mm dia 2mm thick as per the direction of Engineer in charge.						
	5th Final Bill						
	Madivala Machideva sabha Bhavana						
	For Roof Slab before Concreting	6	6.00			36.00	
					Present Qty	**36.00**	**Mtr**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ntractor

SILICON CONSULTING ENGINEERS Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Hallarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Measurement Recorded On: 06-12-23 ~~Detailed~~ Measurements

Sln	Discription of Item	No	Length	Avg. B	Depth	Qty	Unit
	Concealed Conduit System Supplying heavy gauge PVC conduit pipe 25mm dia 2mm thick conforming to IS 2509 with suitable size bends, metal/PVC junction boxes adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipes ends should be covred using PVC end enclosures. run with 18SWG GI fish wire wherever necessary.a)25mm dia 2 mm thick as per the direction of Engineer in charge.						
	5th Final Bill						
	Madivala Machideva sabha Bhavana						
	For Roof Slab before Concreting	6	5.00			30.00	
					Present Qty	**30.00**	**Mtr**
					Qty Paid upto 4th Bill	**0.00**	**Mtr**
					Total Qty	**30.00**	**Mtr**
					Deduct Qty Paid upto 4th Bill	**0.00**	**Mtr**
					Qty to be paid in 5th Final Bill	**30.00**	**Mtr**

CRF Examined 6/12/23

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

tractor

SILICON CONSULTING ENGINEERS Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Kollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

11th Detailed Measurements

Measurement Recorded On: 06-12-23

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
58	Concealed Conduit System Supplying heavy gauge PVC conduit pipe 19/20mm dia 2mm metal PVC junction boxes adhesive paste etc. By groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out the conduit wherever necessary 19/20mm dia 2mm thickas per the direction of Engineer in charge						
	5th Final Bill						
	Madivala Machideva sabha Bhavana						
	For Roof Slab before Concreting	6	8.00			48.00	
					Present Qty	**48.00**	**Mtr**
					Qty Paid upto 4th Bill	**0.00**	**Mtr**
					Total Qty	**48.00**	**Mtr**
					Deduct Qty Paid upto 4th Bill	**0.00**	**Mtr**
					Qty to be paid in 5th Final Bill	**48.00**	**Mtr**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

tractor

SHECON CONSULTING ENGINEERS Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Allarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On 06-12-23

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
59	Concealed Conduit System Supplying heavy gauge PVC conduit pipe 25mm dia 2 mm metal/PVC junction boxes adhesive paste etc. By groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out the conduit wherever necessary a)25mm dia 2 mm thick as per the direction of Engineer in charge.						
	5th Final Bill						
	Madivala Machideva sabha Bhavana						
	For Roof Slab before Concreting	6	4.00			24.00	
					Present Qty	**24.00**	**Mtr**
					Qty Paid upto 4th Bill	**0.00**	**Mtr**
					Total Qty	**24.00**	**Mtr**
					Deduct Qty Paid upto 4th Bill	**0.00**	**Mtr**
					Qty to be paid in 5th Final Bill	**24.00**	**Mtr**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

tractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Ullarahalli (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

IIIrd ~~Detailed~~ Measurements

Measurement Recorded On: 06-12-23

Discription of Item	No	Length	Avg. B	Depth	Qty	Unit
Concealed Conduit System Supplying heavy gauge PVC conduit pipe 32mm dia 2.5mm metal/PVC junction boxes adhesive paste etc. By groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out the conduit wherever necessary.32mm dia 2.5 mm thick as per the direction of Engineer in charge.						
5th Final Bill						
Madivala Machideva sabha Bhavana						
For Roof Slab before Concreting	6	2.00			12.00	
				Present Qty	**12.00**	**M**
				Qty Paid upto 4th Bill	**0.00**	**M**
				Total Qty	**12.00**	**M**
				Deduct Qty Paid upto 4th Bill	**0.00**	**M**
				Qty to be paid in 5th Final Bill	**12.00**	**M**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kudabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

DR – Detailed Measurements

Measurement Recorded On: 07-12-23

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
61	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multistrand Copper conductor single core cable in open or concealed system of wiring with specified IS-694:1990 & conforming to GTP of Group-A as per the direction of Engineer in charge.						
	5th Final Bill						
	Madivala Machideva sabha Bhavana						
	1.00Sqm	1	100.00			100.00	
					Present Qty	**100.00**	**M**
					Qty Paid upto 4th Bill	**0.00**	**M**
					Total Qty	**100.00**	**M**
					Deduct Qty Paid upto 4th Bill	**0.00**	**M**
					Qty to be paid in 5th Final Bill	**100.00**	**M**
62	1.5 Sqm	1	100.00			100.00	
					Present Qty	**100.00**	**M**
					Qty Paid upto 4th Bill	**0.00**	**M**
					Total Qty	**100.00**	**M**
					Deduct Qty Paid upto 4th Bill	**0.00**	**M**
					Qty to be paid in 5th Final Bill	**100.00**	**M**
63	2.5 Sqm	1	100.00			100.00	
					Present Qty	**100.00**	**M**
					Qty Paid upto 4th Bill	**0.00**	**M**
					Total Qty	**100.00**	**M**
					Deduct Qty Paid upto 4th Bill	**0.00**	**M**
					Qty to be paid in 5th Final Bill	**100.00**	**M**
64	4.0 Sqm	1	50.00			50.00	
					Present Qty	**50.00**	**M**
					Qty Paid upto 4th Bill	**0.00**	**M**
					Total Qty	**50.00**	**M**
					Deduct Qty Paid upto 4th Bill	**0.00**	**M**
					Qty to be paid in 5th Final Bill	**50.00**	**M**
65	10.0 Sqm	1	40.00			40.00	
					Present Qty	**40.00**	**M**
					Qty Paid upto 4th Bill	**0.00**	**M**
					Total Qty	**40.00**	**M**
					Deduct Qty Paid upto 4th Bill	**0.00**	**M**
					Qty to be paid in 5th Final Bill	**40.00**	**M**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

DY. ~~Detailed~~ Measurements

surement Recorded On: 07-12-23

Discription of Item	No	Length	Breadth	Depth	Qty	Unit
Point wiring using Copper wire without switch.Supplying and wiring adopting loop system in existing PVC Conduit/casing capping using 1100V Grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2x1.5 Sq.mm Cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose lenght in a wood/PVC round block. complete for each outlet.(5/2.3) Using class A materials (Page No.3, Item No.2.2 of PWD Electrical SR 2021-22)Short point up to 3mtrs from tapping point to out let via switch as per the direction of Engineer in charge.						
5th Final Bill						
Madivala Machideva sabha Bhavana						
	1.00	18.00			18.00	
				Present Qty	**18.00**	**Mtr**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ntractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Kollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants",

Measurement Recorded On: 07-12-23 ~~Detailed~~ Measurements

Item No	Discription of Item	No	Length	Avg. B	Depth	Qty	Unit
57	Medium point a above 3mtr up to 6mtr from tapping point to out let via switch as per the direction of Engineer in charge.						
	5th Final Bill						
	Madivala Machideva sabha Bhavana						
		1.00	18.00			18.00	
					Present Qty	**18.00**	**Mtr**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

SILICON CONSULTING ENGINEERS Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Pre ~~Detailed~~ Measurements

easurement Recorded On: 07-12-23

em lo	Discription of Item	No	Length	Avg. B	Depth	Qty	Unit
8	Long point a above 6mtr up to 10mtr from tapping point to out let via switch as per the direction of Engineer in charge.						
	5th Final Bill						
	Madivala Machideva sabha Bhavana						
		1.00	12.00			12.00	
					Present Qty	**12.00**	**Sqm**

C&Fc

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ontractor

Consultant

Assistant Engineer

Assistant Exec. Engineer

me of Work: "PACKAGE No-06 Developments of roads and ains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), ıganayakanahalli Grama Panchayathi limits and surrounding ıreas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

MEASUREMENT

"5TH AND FINAL BILL"

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Ollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 5.5 m3) as per the direction of Engineer in charge								
Vide Premeasurement page no.01					140.53			
				Present Qty	**140.53**	**Cum**	**317.00**	**44548.01**
Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work as per the direction of Engineer in charge								
Vide Premeasurement page no.					0.00			
				Present Qty	**0.00**	**Cum**	**68.00**	**0.00**
Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km as per the direction of Engineer in charge								
Vide Premeasurement page no.					179.88			
				Present Qty	**179.88**	**t.km**	**63.00**	**11332.34**
Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications.								
Vide Premeasurement page no.					23.05			
				Present Qty	**23.05**	**Cum**	**6010.00**	**138506.46**
Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded								
Vide Premeasurement page no.					52.56			
				Present Qty	**52.56**	**Cum**	**6858.67**	**360512.48**

tractor

Consultant

Asst.Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore - 92

Asst Exec Engineer

Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.as per the direction of Engineer in charge								
Vide Premeasurement page no.					3.20			
				Present Qty	**3.20**	**Ton**	**107888.86**	**345295.38**
Providing and fixing pre cast solid cement concrete Kerb stones made out of M20 with top width 100mm and bottom width 150mm respectively,300mm high with CM 1:3 plastering and finishing cutting including from work, curing, including cost of all materials , labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete to be laid between travel lane and Cycle track/Land scape with all lead , lift, loading and unloading complete as per the direction of engineer in charge (from finish concrete and no painting to be done) (Approved Rate)								
Vide Premeasurement page no.					0.00			
				Present Qty	**0.00**	**Nos**	**513.96**	**0.00**
Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces as per the direction of Engineer in charge								
Vide Premeasurement page no.					0.00			
				Present Qty	**0.00**	**Sqm**	**94.79**	**0.00**
Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m3 in volume and stock piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separatel as per the direction of Engineer in charge								
Vide Premeasurement page no.					0.00			
				Present Qty	**0.00**	**Cum**	**470.56**	**0.00**
Construction of Granular Sub-Base of required grading as per design mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401 .as per the direction of Engineer in charge								
Vide Premeasurement page no.					0.00			
				Present Qty	**0.00**	**Cum**	**2450.57**	**0.00**
Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as pertechnical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:4:8 (M5) Using 40 mm nominal size graded crushed coarse aggregates as per the direction of Engineer in charge								

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SILICON CONSULTING ENGINEERS Consultant

Asst.Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP Bangalore - 92

Asst.Engineer

	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	Vide Premeasurement page no.					0.00			
					Present Qty	**0.00**	**Cum**	**5600.71**	**0.00**
	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity andappropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes,compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, , primer, sealant , curing of concrete slabs for 14- days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete. as per the directions of the Engineer-in-charge of the work.as per the direction of Engineer in charge								
	Vide Premeasurement page no.					0.00			
					Present Qty	**0.00**	**Cum**	**7138.72**	**0.00**
5	Supply and fixing of Retro Reflective Single arrow road name sign board of size 2000mm x 900mm made out of retro reflective sheeting conforming to Type XI standards of ASTM D 4956 - 09 & as per IRC 67-2012 for full back ground of blue colour & white letters and fixed over 4 mm thick Aluminium Composite Material sheet having minimum 0.5 mm thick Aluminium skin on both sides with back side painted grey colour and fixed over back support frame SS angle of 15mm x 20mm x 1.2mm, supported by 38mm OD stainless steel pipe all round in 304 grade and 2 nos of vertical posts of 50 mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of properly designed foundation of size 450mm x 450mm x 600mm in 1:1.5:3 ratio cement concrete. The background shall be blue in color with letters and border in white, the item includes earthwork excavation, cost of all materials, loading, unloading, lead, lift, transportation etc., complete. as per clause 6.9 of IRC 67-2012 for Type XI retro reflective sheeting from the sheeting manufacturer & a certified copy of test reports from an independent test laboratory conforming to clause 6.7 of IRC 67-2012 including outdoor weather exposure report for the retro reflective sheeting offered shall be submitted by the contractor for technical qualification in the tender.(Data Rate)								
	Vide Premeasurement page no.					0.00			
					Present Qty	**0.00**	**Nos**	**38521.28**	**0.00**

tractor

SILICON CONSULTING ENGINEERS

Consultant

Asst.Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Asst.Exec.Engineer

Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
Supply and fixing of Retro Reflective Double arrow road name sign board of size 2000mm x 900mm made out of retro reflective sheeting conforming to Type XI standards of ASTM D 4956 - 09 & as per IRC 67-2012 for full back ground of blue colour & white letters and fixed over 4 mm thick Aluminium Composite Material sheet having minimum 0.5 mm thick Aluminium skin on both sides with back side painted grey colour and fixed over back support frame SS angle of 15mm x 20mm x 1.2mm, supported by 38mm OD stainless steel pipe all round in 304 grade and 2 nos of vertical posts of 50 mm OD stainless steel pipe of 202 grade firmly fixed to the ground by means of properly designed foundation of size 450mm x 450mm x 600mm in 1:1.5:3 ratio cement concrete. The background shall be blue in color with letters and border in white, the item includes earthwork excavation, cost of all materials, loading, unloading, lead, lift, transportation etc., complete. as per clause 6.9 of IRC 67-2012 for Type XI retro reflective sheeting from the sheeting manufacturer & a certified copy of test reports from an independent test laboratory conforming to clause 6.7 of IRC 67-2012 including outdoor weather exposure report for the retro reflective sheeting offered shall be submitted by the contractor for technical qualification in the tender.(Data Rate)								
Vide Premeasurement page no.					0.00			
				Present Qty	**0.00**	**Nos**	**44603.59**	**0.00**
Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarseaggregates (V-I Page No.15, Item No.2.1.3								
Vide Premeasurement page no.					16.67			
				Present Qty	**16.67**	**Cum**	**6005.83**	**100121.76**
Providing and laying in position Reinforced cement concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse								
Vide Premeasurement page no.					1.68			
				Present Qty	**1.68**	**Cum**		
				Above 125 %	**1.68**	**Cum**	**6867.01**	**11564.50**

tractor

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Asst.Engineer

Asst. Exec Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone

	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately)M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates as per the direction of Engineer in charge								
	Vide Premeasurement page no.					62.56			
					Present Qty	**62.56**	**Cum**		
					Upto 125 %	**58.67**	**Cum**	**7432.22**	**436029.79**
					Above 125%	**3.89**	**Cum**	**7100.16**	**27652.65**
	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6(1 cement : 6 coarse sand) as per the direction of Engineer in charge								
	Vide Premeasurement page no.					13.96			
					Present Qty	**13.96**	**Cum**	**5661.27**	**79034.22**
	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.as per the direction of Engineer in charge.								
	Vide Premeasurement page no.					125.71			
					Present Qty	**125.71**	**Cum**	**213.00**	**26776.33**
2	Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately) as per the direction of Engineer in charge.								
	Vide Premeasurement page no.					5499.03			
					Present Qty	**5499.03**	**Kg**	**110.68**	**608606.95**
3	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. as per the direction of Engineer in charge.								
	Vide Premeasurement page no.					142.00			
					Present Qty	**142.00**	**Sqm**	**1255.04**	**178212.50**

tractor

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Asst.Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone

	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
4	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x100x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - 1) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per								
	Vide Premeasurement page no.					140.63			
					Present Qty	**64.00**	**Sqm**	**987.75**	**63215.99**
					Above 125%	**76.63**	**Sqm**	**981.46**	**75209.61**
5	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in charge. Concealed work, including cutting chases and making good the walls etc.								
	Vide Premeasurement page no.					29.00			
					Present Qty	**29.00**	**M**	**497.01**	**14413.18**
6	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in charge. Concealed work, including cutting chases and making good the walls etc.								
	Vide Premeasurement page no.					38.00			
					Present Qty	**38.00**	**M**	**389.46**	**14799.37**
50	Supplying PVC ringtite pipes conforming to IS 4985:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading unloading at both destinations and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approved type, with all labour with all lead & lift including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation								
	Vide Premeasurement page no.					12.00			
					Present Qty	**12.00**	**M**	**411.39**	**4936.67**
56	Concealed Conduit System Supplying heavy gauge PVC conduit pipe 19/20mm dia 2mm thick conforming to IS 2509 with suitable size bends, metal/PVC junction boxes adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipes ends should be covred using PVC end enclosures. run with 18SWG GI fish wire wherever necessary.19/20mm dia 2mm thick as per the direction of Engineer in								
	Vide Premeasurement page no.					36.00			
					Present Qty	**36.00**	**Mtr**	**61.84**	**2226.12**

ntractor

SILICON CONSULTING ENGINEERS Gagan Consultant

Asst.Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore - 92

Asst. Exec. Engineer

	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	Concealed Conduit System Supplying heavy gauge PVC conduit pipe 25mm dia 2mm thick conforming to IS 2509 with suitable size bends, metal/PVC junction boxes adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipes ends should be covred using PVC end enclosures. run with 18SWG GI fish								
	Vide Premeasurement page no.					30.00			
					Present Qty	**30.00**	**M**	**70.96**	**2128.81**
	Concealed Conduit System Supplying heavy gauge PVC conduit pipe 19/20mm dia 2mm metal/PVC junction boxes adhesive paste etc. By groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out the conduit wherever necessary.19/20mm dia 2mm thickas per the direction of Engineer in charge.								
	Vide Premeasurement page no.					48.00			
					Present Qty	**48.00**	**M**	**76.03**	**3649.38**
	Concealed Conduit System Supplying heavy gauge PVC conduit pipe 25mm dia 2.mm metal/PVC junction boxes adhesive paste etc. By groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out the conduit wherever necessary.a)25mm dia 2 mm thick as per the direction of Engineer in charge.								
	Vide Premeasurement page no.					24.00			
					Present Qty	**24.00**	**M**	**81.10**	**1946.34**
	Concealed Conduit System Supplying heavy gauge PVC conduit pipe 32mm dia 2.5mm metal/PVC junction boxes adhesive paste etc. By groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out the conduit wherever necessary.32mm dia 2.5 mm thick as per the direction of Engineer in charge.								
	Vide Premeasurement page no.					12.00			
					Present Qty	**12.00**	**M**	**106.44**	**1277.28**
1	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multistrand Copper conductor single core cable in open or concealed system of wiring with specified IS-694:1990 & conforming to GTP of Group-A as per the direction of Engineer in charge.								
	Vide Premeasurement page no.					100.00			
					Present Qty	**100.00**	**Mtr**	**18.25**	**1824.69**
2	1.5 Sqm								
	Vide Premeasurement page no.					100.00			
					Present Qty	**100.00**	**Mtr**	**26.36**	**2635.67**
3	2.5 Sqm								
	Vide Premeasurement page no.					100.00			

tractor

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Asst.Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone

	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
					Present Qty	**100.00**	**Mtr**	**40.55**	**4054.87**
	4.0 Sqm								
	Vide Premeasurement page no. 30					50.00			
					Present Qty	**50.00**	**Mtr**	**59.81**	**2990.47**
55	10.0 Sqm								
	Vide Premeasurement page no. 30					40.00			
					Present Qty	**40.00**	**Mtr**	**159.15**	**6366.15**
56	Point wiring using Copper wire without switch.Supplying and wiring adopting loop system in existing PVC Conduit/casing capping using 1100V Grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2x1.5 Sq.mm Cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose lenght in a wood/PVC round block, complete for each outlet.(5/2.3)								
	Vide Premeasurement page no. 31					18.00			
					Present Qty	**18.00**	**Point**	**254.44**	**4579.98**
57	Medium point a above 3mtr up to 6mtr from tapping point to out let via switch as per the direction of Engineer in charge.								
	Vide Premeasurement page no. 32					18.00			
					Present Qty	**18.00**	**Point**	**365.95**	**6587.14**
58	Long point a above 6mtr up to 10mtr from tapping point to out let via switch as per the direction of Engineer in charge.								
	Vide Premeasurement page no. 33					12.00			
					Present Qty	**12.00**	**Point**	**549.44**	**6593.22**

ntractor

SILICON CONSULTING ENGINEERS

Consultant

Asst.Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP Bangalore 93

Asst.Exec.Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 12-12-23

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
7	Providing and fixing precast reinforced cement concrete covering slabs of 10Cm thick made of M20 with OPC cement, with 20mm and down size graded granite metal coarse aggregate @0.70 mixed, Inculding providing and removing centering, shuttering, strutting propping etc., for edges of slabs with TMT steel (Fe500) cost of all materials, labour, all lead and lift, HOM of machinery, curing, including cost of reinforcement etc., complete as directed by the Engineer in charge of the work.								
	5th Final Bill								
	For RCC Drain								
	Singanayakanahalli								
	Panchayathi								
	Arunadhaya Layout Main Rd								
	LHS								
	CH: 00.00m to 4.00m	1	4.00	0.90		0.00			
	CH: 4.00m to 34.00m	1	30.00	0.90		27.00			
	CH: 34.00m to 57.00m	1	23.00	0.90		20.70			
	CH: 57.00m to 62.80m CD Gap	1	5.80						
	CH: 62.800m to 74.60m	1	11.80	0.90		10.62			
	CH: 74.60m to 80.50m CD Gap	1	5.90						
	CH: 80.50m to 110.50m	1	30.00	0.90		27.00			
	CH: 110.50m to 140.50m	1	30.00	0.90		27.00			
	CH: 140.50m to 144.30m	1	3.80	0.90		3.42			
	Arunadhaya Layout Main Rd								
	From Culvert								
	CH: 00.00m to 25.00m	1	25.00	0.90		22.50			
	CH: 25.00m to 29.90m	1	4.90	0.90		4.41			
					Present Qty	**142.65**	**Sqm**		
					Qty Paid upto 4th Bill	**1917.47**	**Sqm**		
					Total Qty	**2060.12**	**Sqm**		
					Deduct Qty Paid upto 4th Bill	**1917.47**	**Sqm**		
					Qty to be paid in 5th Final Bill	**142.65**	**Sqm**	**2100.42**	**299625.44**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

E.E: (Project)

Contractor

Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 12-12-23

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
8	Providing and fixing precast reinforced cement concrete covering slabs of 23Cm thick made of M20 with OPC cement,with 20mm and down size graded granite metal coarse aggregate @0.70 mixed, Inculding providing and removing centering, shuttering, strutting propping etc., for edges of slabs with TMT steel (Fe500) cost of all materials, labour, all lead and lift, HOM of machinery, curing, including cost of reinforcement etc., complete as directed by the Engineer in charge of the work								
	5th Final Bill								
	Arunadhaya Layout Main Rd LHS								
		1	5.80	1.20		6.96			
		1	5.90	1.20		7.08			
						Present Qty	**14.04**	**Sqm**		
						Qty Paid upto 4th Bill	**116.43**	**Sqm**		
						Total Qty	**130.47**	**Sqm**		
						Deduct Qty Paid upto 4th Bill	**116.43**	**Sqm**		
						Qty to be paid in 5th Final Bill	**14.04**	**Sqm**	**5106.10**	**71689.61**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 12-12-23

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
25	Providing and laying water proofing treatment to the Roof with PU based single component elastomeric pure polyurethane based coating on New terrace/Chajjas/Sunken portion of WC:Bathroom, cold applied PU waterproofing membrane that is highly elastic with elongation greater than 400% and tensile strength greater than 2MPa as per ASTM D412. The waterproofing membrane to be applied in 2coats @ 1.6kg per m2 to achieve final DFT (dry film thickness) of 1mm including prime coat of epoxy primer @150 g per m2 and protection with 120gsm Geo-textile over the waterproofing membrane. The finished cost to include surface preparation, making coving at Junction, Bore Packing, treatment of construction joints completely as per specification & with a 10 years warranty on product & work from certified manufacturers as per the direction of the Engineer In charge.(V-II Page No.133, Item No.15.1 of PWD SR 2021-22)								
	5th Final Bill								
	Madivala Machideva sabha Bhavana								
	Terrace	1	14.00	12.55		175.70			
	Deduct Staircase Area	-1	4.15	2.40		-9.96			
					Present Qty	**165.74**	**Sqm**	**777.87**	**128924.55**

A.E. (Project)

12/12/23

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 13-12-23

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
26	Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, usage charges complete as per specifications.(V-II Page No.99, Item No.12.11 of PWD SR 2021-22)								
	5th Final Bill								
	Madivala Machideva sabha Bhavana								
	MD	4	2.00	0.13	0.10	0.10			
	D1	1	0.90	0.10	0.08	0.01			
		2	2.05	0.10	0.08	0.03			
					Present Qty	**0.14**	**Cum**	**94382.01**	**12977.53**

CRC

13/12/23

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

A.E. (Project)

19/1/24

Contractor

Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 13-12-23

Item No	Description of Item	No	Length	Avg. B	Depth	Qty	Unit	Rate	Amount
	Fixing of door frame in an existing opening including embedding frame in floor and walls after cutting masonry for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and down size granite metal painting two coats of coal tar to sides of frame, making good the damages to walls and floor as required and disposal of the debris with lead upto 50 m. including cost of materials, labour charges, complete as per specificationsas per the direction of Engineer in charge.								
	Sub Final Bill								
	Madivala Machideva sabha Bhavana								
	MD	1				1.00			
	DI	1				1.00			
					Present Qty	**2.00**	**Nos**	**1550.53**	**3101.07**

CRFC
Kumar
13/12/23

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 14-12-23

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
28	Providing and fixing flush door shutter made out of solid core block board type, well seasoned , chemicaly treated hard wood battens and internal frame with minimum 45 mm wide wooden frame alround door shutters covered with cross bonded wooden sheets (core veneer) hot pressed and fastened on both sides of the door useing liquid phenol formaldehyde resin as per IS specifications 2202 (part-I) 1991. from manufacturer complete as per spcification. 30 mm thick both side commercialas per the direction of Engineer in charge.								
	5th Final Bill								
	Madivala Machideva sabha Bhavana								
	D1	1	0.90		2.00	1.80			
					Present Qty	**1.80**	**Sqm**	**2754.41**	**4957.95**

14/12/23

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On											
Item No	Description of Item	No	Length	B1	B2	Avg. B	Depth	Qty	Unit	Rate	Amount
20	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer. Using M.S. angels 40x40x6 mm for diagonal braces including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge as per the direction of Engineer in charge										
	Not Operated										
								Present Qty	**0.00**	**Sqm**	**3821.52**	**0.00**

Director

SHACON CONSULTING ENGINEERS Consultant

Assistant Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 14-12-23

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
30	Providing & fixing of 2-track x 2-panel sliding windows made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6 PHR with TPE (Thermo Plastic Elastomer) and lead free, gaskets -grey color having isolated drainage and reinforced with Galvanized Iron profile through-out the window frame. The outer frame having an overall size of 44mm width x 40mmheight with reinforcement of 1mm thickness and Sash with overall size of 27mm X 53mm with UPVC honeycomb structure inside in lieu of GI reinforcement. Coextruded Glazing bead for fixing of glass shall be of size 9.5mm x 21.5mm. Windows shall be provided with 5mm plain float glass, standard hardware& single point locking system with Crescent Locks. Wall thickness of frame & sash shall be of 2 mm.Maximum possible size – 1219mm x								
	5th Final Bill								
	Madivala Machideva sabha Bhavana								
	W	12	1.20		1.20	17.28			
	W1 Stircase Window	1	2.85		0.65	1.85			
	W2 out Side Window	1	2.30		1.90	4.37			
					Present Qty	**23.50**	**Sqm**	**4295.55**	**100956.15**

C&RC

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

C&RC

19/12/23

AEE (Project)

17.28

Contractor

Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 15-12-23

Measurement Book No.	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
71	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by weldingas per the direction of Engineer in charge.								
	5th Final Bill								
	Madivala Machideva sabha Bhavana								
	W	12	1.20		1.20	17.28			
	W1 Stircase Window	1	2.85		0.65	1.85			
	W2 out Side Window	1	2.30		1.90	4.37			
	V	1	0.60		0.60	0.36			
						23.86			
	Provided 22Kg/Sqm								
	23.86Sqm*22kg/Sqm=524.98					**524.98**			
					Present Qty	**524.98**	**Kg**	**136.79**	**71809.03**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore -92

19/1/24

524.92

524.92

71809.03

Contractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Kottigepalya, Kempatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 16-12-23

Measurement Book No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
67	Providing and laying flooring and steps fine machine polished granite stone slabs 20 mm thick on cement mortar bed 1:6, 20 mm thick, and joints finished with cement mortar 1:3 over existing cement concrete bed including cost of materials, mortar, labour, curing complete as per specifications as per the direction of Engineer in								
	5th Final Bill								
	Madivala Machideva sabha Bhavana								
	Hall	1	14.00	9.95		139.30			
	Deduct Toilet Area	-1	3.25	3.25		-10.56			
	Varhanada	1	14.00	2.60		36.40			
	Skirting	1	8.75	0.10		0.88			
	Hall	1	14.00	0.10		1.40			
	Varhanada	2	6.65	0.10		1.33			
		1	14.00	0.10		1.40			
					Present Qty	**170.14**	**Sqm**	**2506.95**	**426539.26**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

A.E. (Project)

Contractor

BASCON CONSULTING ENGINEERS Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: **"PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Kottarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".**

Detailed Measurements

Measurement Recorded On: 16-12-23

Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge : ** Flamed finish granite stone slab Black, Cherry Red, Brown, Cat Eye, River Pink or								
5th Final Bill								
Madivala Machideva sabha Bhavana								
Staircase	11	0.23	0.95		2.40			
	10	0.23	0.85		1.96			
Landing	1	2.40	0.90		2.16			
Door Opoosite Steps	2	2.70	0.35		1.89			
	2	2.70	0.15		0.81			
				Present Qty	**9.22**	**Sqm**		
				Upto 125%	**6.30**	**Sqm**	**1982.80**	**12491.67**
				Above 125%	**2.92**	**Sqm**	**1982.77**	**5786.70**

C&PC
Measured
16/12/23

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Kothanuru, Kattigenahalli (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 16-12-23

Discription of Item	No	Length	Avg. B	Depth	Qty	Unit	Rate	Amount
Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ m2 including pointing the joints with white cement and matching pigments etc., complete as per the direction of Engineer in charge.								
5th Final Bill								
Madivala Machideva sabha								
Bhavana								
Bath area	1	2.18	1.47		3.20			
Toilet Area	1	1.38	1.32		1.82			
Passage	1	1.57	1.32		2.07			
	1	0.77	1.47		1.13			
				Present Qty	**8.23**	**Sqm**	**807.11**	**6642.91**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Kallurajatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 16-12-23

Sl No	Discription of Item	No	Length	Avg. B	Depth	Qty	Unit	Rate	Amount
	Providing skirting, dadooing, rises of steps with white glazed tiles 6mm thick on 10mm thick cement plaster 1:3 and jointed with white cement slurry over existing rough plaster surface using glazed tiles of approved make and size including cost of materials, labour, complete as per specificationsas per the direction of Engineer in charge.								
	5th Final Bill								
	Madivala Machideva sabha Bhavana								
	Toilet Dadoo								
	Bath area	1	2.08	2.00		4.15			
		1	1.32	2.00		2.64			
		1	1.38	2.00		2.76			
		2	0.65	2.00		2.60			
	Toilet area	1	0.65	2.00		1.30			
		2	2.18	2.00		8.72			
		1	1.47	2.00		2.94			
		2	0.80	2.00		3.20			
		1	0.77	2.00		1.54			
	Passage Area	1	3.10	2.00		6.20			
					Present Qty	**36.05**	**Sqm**	**2049.62**	**73888.95**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Kallenahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 15-12-23

Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge as per the direction of Engineer in charge.								
5th Final Bill								
Madivala Machideva sabha Bhavana								
External Plastering								
South side wall	1	14.40		5.65	81.36			
East Side Wall	1	12.95		5.65	73.17			
	1	2.60		3.05	7.93			
North Side Wall	1	14.20		3.05	43.31			
Staircase Side Wall	2	4.15		3.05	25.32			
Staircase SideWall parapet	2	2.80		0.95	5.32			
Deduct Ms Pipe Portion	-1	3.50		2.00	-7.00			
	-1	3.15		2.00	-6.30			
West Side Wall	1	12.95		5.65	73.17			
Chajja								
W	8	1.50		0.60	7.20			
	6	1.50		0.15	1.35			
	6	1.50		0.15	1.35			
Deduction For Openings								
MD	-1	2.00		2.05	-4.10			
D1	-1	0.90		2.05	-1.85			
W	-12	1.20		1.20	-17.28			
W2	-1	2.85		0.65	-1.85			
W3	-1	2.30		1.90	-4.37			
For Compound Wall								
South side	2	16.25		1.30	42.25			
East Side	2	5.00		1.30	13.00			
North Side	2	15.80		1.30	41.08			
				Present Qty	**373.05**	**Sqm**	**320.54**	**119579.49**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 14-12-23

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
37	Providing 15 mm cement plaster on the rough side of single or half brick wall of mix 1:4 (1 cement: 4 fine sand) including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.as per the direction of Engineer in charge.								
	5th Final Bill								
	Madivala Machideva sabha Bhavana								
	Sump tank								
		2	3.00		1.50	9.00			
		2	2.4		1.50	7.20			
	Ceiling Plastering								
	Hall	1	14.00	9.95		139.30			
	Beam	3*2	9.95		0.60	35.82			
	Deduct Toilet Portion	-1	3.25	3.25		-10.56			
	Varhanada	1	14.00	2.30		32.20			
	Staircase 1st flight	1	3.20	1.00		3.20			
	2nd flight	1	3.20	0.95		3.04			
	Inside Plastering								
	Hall	1	14.00	3.00		42.00			
		1	10.75	3.00		32.25			
		1	6.70	3.00		20.10			
	Toilet Wall	1	9.95	3.00		29.85			
	Deduct Openings	1	3.25	2.90		9.43			
	MD	-1	2.00		2.05	-4.10			
	D1	-1	0.90		2.05	-1.85			
	W	-12	1.20		1.20	-17.28			
	V	-1	0.60		0.60	-0.36			
					Present Qty	**329.24**	**Sqm**	**264.16**	**86972.54**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

Consultant

Assistant Engineer

Assistant Exec. Enginee

me of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Jaralamti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

ement Recorded On: 16-12-23

Discription of Item	No	Length	B1	B2	Avg. B	Depth	Qty	Unit	Rate	Amount
Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade Two coats on new work after thoroughly brooming the surface to remove all dirt, dust, mortar drops nd foreign matter including preparing the surface even and sand paper smooth, cost of materials, abour complete as per specifications and as per directions of Engineer-in-charge. as per the direction f Engineer in charge.										
th Final Bill										
Madivala Machideva abha Bhavana										
ump tank	2	3.00				1.50	9.00			
	2	2.4				1.50	7.20			
Ceiling Plastering										
Hall	1	14.00			9.95		139.30			
Beam	3*2	9.95				0.60	35.82			
Deduct Toilet Portion	-1	3.25			3.25		-10.56			
Varhanada	1	14.00			2.30		32.20			
Staircase 1st flight	1	3.20			1.00		3.20			
2nd flight	1	3.20			0.95		3.04			
Inside Plastering										
Hall	1	14.00			3.00		42.00			
	1	10.75			3.00		32.25			
	1	6.70			3.00		20.10			
	1	9.95			3.00		29.85			
Toilet Wall	1	3.25			2.90		9.43			
Deduct Openings										
MD	-1	2.00				2.05	-4.10			
D1	-1	0.90				2.05	-1.85			
W	-12	1.20				1.20	-17.28			
V	-1	0.60				0.60	-0.36			
						Present Qty	**329.24**	**Cum**	**99.19**	**32657.98**

Cafe Laundry 16/12/23

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

actor

SILICON CONSULTING ENGINEERS Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Jalthavalatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 16-12-23

Item No	Description of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
30	Providing White washing with lime to give an even shade :New work (three coats) with lime of approved quality, including cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. as per the direction of Engineer in charge.								
	5th Final Bill								
	Madivala Machideva sabha Bhavana								
	External Plastering								
	South side wall	1	14.40		5.65	81.36			
	East Side Wall	1	12.95		5.65	73.17			
		1	2.60		3.05	7.93			
	North Side Wall	1	14.20		3.05	43.31			
	Staircase Side Wall	2	4.15		3.05	25.32			
	Staircase SideWall parapet	2	2.80		0.95	5.32			
	Deduct Ms Pipe Portion	-1	3.50		2.00	-7.00			
		-1	3.15		2.00	-6.30			
	West Side Wall	1	12.95		5.65	73.17			
	Chajja								
	W	8	1.50		0.60	7.20			
		6	1.50		0.15	1.35			
		6	1.50		0.15	1.35			
	Deduction For Openings								
	MD	-1	2.00		2.05	-4.10			
	D1	-1	0.90		2.05	-1.85			
	W	-12	1.20		1.20	-17.28			
	W2	-1	2.85		0.65	-1.85			
	W3	-1	2.30		1.90	-4.37			
	For Compound Wall								
	South side	2	16.25		1.30	42.25			
	East Side	2	5.00		1.30	13.00			
	North Side	2	15.80		1.30	41.08			
					Present Qty	**373.05**	**Sqm**	**19.84**	**7400.82**

Cafe Knowledy 16/12/23

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

Contractor | Consultant (SILICON CONSULTING ENGINEERS) | Assistant Engineer | Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Kallasandra (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On 16.2.23

Item No	Description of Item	No	Length	Avg. B	Depth	Qty	Unit	Rate	Amount
40	Finishing walls with Acrylic Smooth exterior paint of required shade New work (Two coat applied @ 1.67 ltr/10 m◆ over and including priming coat of exterior primer applied @ 2.20 kg/10 m◆) with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge as per								
	Sth Final Bill								
	Madivala Machideva sabha Bhavana								
	External Plastering								
	South side wall	1	14.40		5.65	81.36			
	East Side Wall	1	12.95		5.65	73.17			
		1	2.60		3.05	7.93			
	North Side Wall	1	14.20		3.05	43.31			
	Staircase Side Wall	2	4.15		3.05	25.32			
	Staircase SideWall parapet	2	2.80		0.95	5.32			
	Deduct Ms Pipe Portion	-1	3.50		2.00	-7.00			
		-1	3.15		2.00	-6.30			
	West Side Wall	1	12.95		5.65	73.18			
	Chajja								
	W	8	1.50		0.60	7.20			
		6	1.50		0.15	1.35			
		9	2.50		0.15	1.35			
	Deductions For Openings								
	MD	-1	2.00		2.05	-4.10			
	D1	-1	0.90		2.05	-1.85			
	W	-12	1.20		1.20	-17.28			
	W2	-1	2.85		0.65	-1.85			
	W3	-1	2.30		1.90	-4.37			
	For Compound Wall								
	South side	2	16.25		1.30	42.25			
	East Side	2	5.00		1.30	13.00			
	North Side	2	15.80		1.30	41.08			
					Present Qty	**373.05**	**Sqm**	**142.01**	**52975.61**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

ntractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
41	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :Two coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge as per the direction of Engineer in charge.								
	Not Opeated								
					Present Qty	**0.00**	**Sqm**	**135.73**	**0.00**

ontractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Asst. Executive Engineer
Assistant Exec. Engineer
Project
Yelahanka Zone
Bangalore - 92

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 16-12-23

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
42	Providing and fixing chromium plated brass handles of 100/125 mm with necessary screws etc. as per the direction of Engineer in charge.								
	5th Final Bill								
	Madivala Machideva sabha Bhavana								
	MD	4				4.00			
	D1	2				2.00			
					Present Qty	**6.00**	**Nos**	**182.73**	**1096.35**

C&EC
16/12/23

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ontractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 16-12-23

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
43	Providing and fixing ISI marked M.S. pressed butt hinges bright finished with necessary screws etc.125x65x2.12mmas per the direction of Engineer in charge.								
	5th Final Bill								
	Madivala Machideva sabha Bhavana								
	MD	6				6.00			
	D1	3				3.00			
					Present Qty	**9.00**	**Nos**	**39.68**	**357.09**

16/12/23
Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 16-12-23

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
44	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. Complete 250x10mm as per the direction of Engineer in charge.								
	5th Final Bill								
	Madivala Machideva sabha Bhavana								
	MD	3				3.00			
	D1	1				1.00			
					Present Qty	**4.00**	**Nos**	**351.87**	**1407.50**

16/12

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

ontractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants",

Detailed Measurements

Measurement Recorded On: 18-12-23

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
47	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : W.C. pan with ISI marked white solid plastic seat and lid as per the direction of Engineer in charge.								
	5th Final Bill								
	Madivala Machideva sabha Bhavana								
	In toilet	1				1.00			
					Present Qty	**1.00**	**Each**	**5225.87**	**5225.87**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 18-12-23

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
48	Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required : Size 600x450x200 mm as per the direction of Engineer in charge.								
	5th Final Bill								
	Madivala Machideva sabha Bhavana								
	In toilet	1				1.00			
					Present Qty	**1.00**	**Each**	**4848.94**	**4848.94**

Contractor

Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 18-12-23

Item No	Discription of Item	No	Length	Avg. B	Depth	Qty	Unit	Rate	Amount
40	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required : Single half stall urinal with 5 litre P.V.C. automatic flushing cistern as per the direction of Engineer in charge.								
	5th Final Bill								
	Madivala Machideva sabha Bhavana								
	In toilet	2				2.00			
					Present Qty	**2.00**	**Each**	**6920.49**	**13840.98**

18/12/23

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 8-12-22

Item No	Discription of Item	No	Length	Avg. B	Depth	Qty	Unit	Rate	Amount
51	Providing and placing on terrace, polyethylene water storage tanks as per IS 12701 :1996 with manhole lid and suitable locking\ arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per spedfications.(For1000 litre capacity)								
	5th Final Bill								
	Madivala Machideva sabha Bhavana								
	On terrace	1	1000.00			1000.00			
					Present Qty	**1000.00**	**L**	**8.91**	**8905.56**

18/12

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 18-12-23

Item No.	Description of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
43	Providing and fixing gun metal non- return valve of approved quality (screwed end)as per the direction of Engineer in charge.								
	5th Final Bill								
	Madivala Machideva sabha Bhavana								
	Toilet	1				1.00			
						Present Qty	**1.00**	**Each**	**577.40**	**577.40**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 18-12-23

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
53	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats completeas per the direction of Engineer in charge								
	5th Final Bill								
	Madivala Machideva sabha Bhavana	1				1.00			
					Present Qty	**1.00**	**Each**	**375.89**	**375.89**

18/12

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 18-12-23

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
54	Providing and fixing PTMT pillar cock of approved quality and colour15 mm nominal bore, 125 mm long foam flow, weighing not less than 120 gmsas per the direction of								
	5th Final Bill								
	Madivala Machideva sabha Bhavana	1							
						1.00			
					Present Qty	**1.00**	**Each**	**229.71**	**229.71**

CRE Kaveri 18/12/23

Asst. Executive Engineer,
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On

Item No.	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
55	Bottle trap 38 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 263 gms as per the direction of Engineer in charge.								
	Not Operated								
						Present Qty	**0.00**	**Each**	**254.77**	**0.00**

Contractor

Consultant

Assistant Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollara Patti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 18-12-23

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
69	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve , indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required conforming to IEC60898 5-32Amps DP as per the direction of Engineer in charge								
	5th Final Bill								
	Madivala Machideva sabha Bhavana								
		3				3.00			
						Present Qty	**3.00**	**Each**	530.17	1590.51
70	**6-32 Amps DP**	3				3.00			
						Present Qty	**3.00**	**Each**	1118.13	3354.39
71	40 Amps TPN	3				3.00			
						Present Qty	**3.00**	**Each**	2425.83	7277.49
72	50-63 Amps SP	2				2.00			
						Present Qty	**2.00**	**Each**	744.07	1488.14

CRPC
Kumudvy
18/12

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engine

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 18-12-23

Item No	Discription of Item	No	Length	Avg. B	Depth	Qty	Unit	Rate	Amount
73	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure,III-Single Door.Group A12Way SP &Nas per the								
	5th Final Bill								
	Madivala Machideva sabha Bhavana	1				1.00			
					Present Qty	**1.00**	**Each**	**1612.83**	**1612.83**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Gollara Patti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 18-12-23

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
14	Supplying and fixing regular MCB distribution boards on wall/wood board/flush mounting using required clamps, bolts, nuts etc. with provision for fixing suitable type capacity MCB's single phase/3 phase/single door with power coated painting etc., complete: Double door: 6 way TP &N , Group (A) as per the direction of Engineer in charge.								
	5th Final Bill								
	Madivala Machideva sabha Bhavana	1				1.00			
					Present Qty	**1.00**	**Each**	**3786.24**	**3786.24**

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor | Consultant | Assistant Engineer | Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Kadabagatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Sl.No/Quality/Clg	Description of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	providing and fixing 32Amps security and energy saving DP switch with key tag suitable to operate on 230 Volts, 50 Hz supply & completely wired on existing box as per the direction of Engineer in charge								
						Present Qty	**0.00**	**Nos**	**757.92**	**0.00**

Assistant Engineer

Assistant Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Machohalli (Kirthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On 18-12-23

Description of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall 1-3 Way as per the direction of Engineer in								
5th Final Bill					2.00			
Madivala Machideva sabha Bhavana	2							
				Present Qty	2.00	Each	1612.83	3225.65

124.69 249.37

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Kottarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 18-12-23

Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
Supplying and fixing of 20/40 Watts heavy duty open construction Ferromagnetic copper ballast for fluorescent tubes : Supplying and fixing of 20/40 Watts heavy duty open construction Ferromagnetic copper ballast for fluorescent tubes, Class H Insulated copper wire, Vacuum impregnated high quality with Low loss silicon steel lamination operated on 240V,50Hz supply with IEC 60920 (Safety) & IEC 60921(Performance). Operating voltage range from 180V to 265V, 50Hz AC power Supply. as per the direction of Engineer in charge.								
					5.00			
5th Final Bill Madivala Machideva sabha Bhavana	5				**Present Qty**	**5.00**	**Each**	**304.12**	**1520.58**

18/12/23

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS Consultants

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Jalligatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 18-12-23

Discription of Item	No	Length	Avg. B	Depth	Qty	Unit	Rate	Amount
Supply and fixing metal fan box with round hook (Page No.2, Item No.1.12 of PWD Electrical SR 2021-22)								
6th Final Bill					7.00			
Nadiyala Machideva sabha Bhavana	7							
				Present Qty	**7.00**	**Nos**	**165.24**	**1156.65**

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Asst. Executive Engineer
[illegible] Division
[illegible] Zone
BBMP, Bangalore - 92

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Singanayakanahalli (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 18-12-23

Description of Item	No	Length	Avg. B	Depth	Qty	Unit	Rate	Amount
Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.as per the direction of Engineer in charge.								
4th Final Bill								
Nadiveala Machideva sabha bhavana	4				4.00			
					Present Qty	**4.00**	**Each**	**89.21**	**356.84**
16Amps 3way 5 pin socket	8				8.00			
					Present Qty	**8.00**	**Each**	**164.22**	**1313.76**
16Amps SP Switch	0				0.00			
					Present Qty	**0.00**	**Each**	**252.42**	**0.00**
15Amps Flush/projected Types DP switch	0				0.00			
					Present Qty	**0.00**	**Each**	**380.14**	**0.00**

18/12/23

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Jakkasandra Patti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 18-12-23

Sl No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall as per the direction of Engineer in charge.								
	5th Final Bill					2.00			
	1-3Way	2							
					Present Qty	**2.00**	**Each**	**124.69**	**249.38**
						0.00			
	4-5Way	0							
					Present Qty	**0.00**	**Each**	**139.89**	**0.00**
						5.00			
	6Way	5							
					Present Qty	**5.00**	**Each**	**214.91**	**1074.55**
						0.00			
	8Way	0							
					Present Qty	**0.00**	**Each**	**253.43**	**0.00**
						4.00			
	10-12Way	4							
					Present Qty	**4.00**	**Each**	**329.46**	**1317.84**
						0.00			
	16Way	0							
					Present Qty	**0.00**	**Each**	**358.86**	**0.00**

C&Pc Krmedry 18/12/23

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Harappanahatti (Kithanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On 18-12-23

Description of Item	No	Length	Avg. B	Depth	Qty	Unit	Rate	Amount
Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. as per the direction of Engineer in charge.								
6th Final Bill								
Vasudevalu Machideva sabha Bhavana					2.00			
	2							
					Present Qty	**2.00**	**Each**	**154.09**	**308.18**
1Module					0.00			
	0							
					Present Qty	**0.00**	**Each**	**177.40**	**0.00**
2Module					5.00			
	5							
					Present Qty	**5.00**	**Each**	**247.35**	**1236.75**
3Module					0.00			
					Present Qty	**0.00**	**Each**	**306.14**	**0.00**
4Module					4.00			
					Present Qty	**4.00**	**Each**	**367.98**	**1471.92**
5Module					0.00			
	0							
					Present Qty	**0.00**	**Each**	**408.53**	**0.00**

Checked
18/12/23
Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore -92

SILICON CONSULTING ENGINEERS Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Kittiganahalli (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 19-12-23

Discription of Item	No	Length	Avg. B	Depth	Qty	Unit	Rate	Amount
Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies for operation on 230 Volts, 50 Cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system.(84/9.3)56" Sweep (1400mm) Regular model as per								
4th Final Bill								
Nidivala Machideva sabha Bhavana	7				7.00			
				Present Qty	7.00	Each	2199.77	15398.38

C&RE
19/12/23

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Singanayakanahalli (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On:

Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
Supplying and fixing of Electronic Ballast suitable for T8 Lamp with housing made of Pre-coated steel/PC. Operating voltage range from 180V to 265V, 50Hz AC power Supply flicker free warm start with over voltage protection, Inrush current protection, De-activated lamp protection & End of Lamp life protection with PF> 0.95 & TC(deg C) > 65 degC. Operating voltage range from 180V to 265V, 50Hz AC power Supply.as per the direction of Engineer								
Not Operated					**Present Qty**	**0.00**	**Each**	**734.95**	**0.00**

CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Jarakatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Date Recorded On: 9/12-23

Description of Item	No	Length	Avg. B	Depth	Qty	Unit	Rate	Amount
Supply all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings etc. on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, complete Nos of round blocks and clamps. 14.7.1 On wall / ceiling / Rafter / Girders as per the directions of Engineer in charge.								
Final Bill								
Basavaraja Machideva	9				9.00			
Ass Bhavana				**Present Qty**	**9.00**	**Nos**	**120.63**	**1085.69**

CRPC

19/12/23

Asst. Executive Engineer
[illegible] Division
[illegible] Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS Consultants

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Jakkasandra (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On 19-12-23

Sl No	Description of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	Earthing Supplying and fixing and wiring earth electrode for grounding circuits IC cutouts and other equipments on the meter board in the pit. The pits should be filled up with equal proportion of salt and charcoal 150mm around the pipe to complete depth. The connection from the pipe to the conduits etc is to established through GI wire of sizes as per clause no 3.3 of IS 732 using 12mm bolts, nuts, washers and check nuts, the pipe shall have 16 through holes of 12mm dia as per the direction of Engineer in charge.								
	5th Final Bill								
	Madivala Machideva sabha								
	Bhavana	1				1.00			
					Present Qty	**1.00**	**Job**	**3915.49**	**3915.49**

19/12

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SILICON CONSULTING ENGINEERS
Consultant

Assistant Engineer

Assistant Exec. Engineer

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Singanayakanahalli (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Last Recorded On:

Description of Item	No	Length	Avg. B	Depth	Qty	Unit	Rate	Amount
Geophysical investigation at site for sinking borewells for supplying drinking water to the habitation either through the Hand Pump MWS or P.W.S.S. by vertical electrical sounding by adopting Venner orSchlumbergers's method, including reconnaissance survey of geological formation, Geophysical investigation of existing ground water in the vicinity, its quality, drinking and acceptability of the users, indicating the location of the site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 metre in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instruments and accessories to work site, engaging technical personal and labour required etc. NOTE: 1) Additional rate on item 1&2 is allowed for drilling in over burden and fixing Casing pipes beyond 20 M (for fixing Casing pipes only) a) Above 20 M and upto 30 M - 15%, b) Above 30 M - 30% (Measurement of overburden is restricted to the depth of casing pipe fixed excluding initial depth of 20M and protection above ground level). 2) A sum of Rs. 100/- is to be deducted for Dry Borewell towards yield test. as per the direction of Engineer in charge.								
				Present Qty	**0.00**	**Nos**	**5367.87**	**0.00**
Not Operated								
Sinking of Borewell of 165mm dia clear using super fast hydraulic rig of capacity 300 PSIG and above 1100 CMF & above in all strata including over burdern upto 20 m. Fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicle, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (Excluding cost of casing pipes, collars, cap etc., complete)(P.151, I.No-1) BWSSB.SR 2021-220 to 50 m (Code No-0010A)								
				Present Qty	**0.00**	**M**	**302.80**	**0.00**
51 to 100 m (Code No-0010B)								
				Present Qty	**0.00**	**M**	**380.85**	**0.00**
101 to 150 m (Code No-0010C)								
				Present Qty	**0.00**	**M**	**403.59**	**0.00**
151 to 200 m (Code No-0010D)								
				Present Qty	**0.00**	**M**	**468.96**	**0.00**
201 to 250 m (Code No-0010E)								
				Present Qty	**0.00**	**M**	**550.44**	**0.00**
251 to 300 m (Code No-0010F)								
				Present Qty	**0.00**	**M**	**582.65**	**0.00**

Consultant

Asst.Engineer

Asst.Executive Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone

Discription of Item	No	Length	Avg. B	Depth	Qty	Unit	Rate	Amount
300 to 350 m (Code No-0010G)								
					Present Qty	**0.00**	**M**	**647.07**	**0.00**
Supply of ISI mark 175mm nominal bore,plain and steel casing pipe grade of steel Fe 410 of wall thickness conforming to IS 4270-2001 and latest ammendments, electrical resistance welded steel tubes, material and conforming to IS 1387-1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5-7m both ends.threaded conforming to IS 554-1985 one end fixed with socket conforming to IS 4270-2001 and the other end with screwed pipes all shall be responsibaly free from defects. The tubes shall be responsible straight end should be with ISI marking weighing 25.10kg/m.prices include Collar-Medium dutyas per the direction of Engineer in charge.								
					Present Qty	**0.00**	**Rmtr**	**2017.96**	**0.00**
Supply and delivery of galvanized mild steel tubes of 6mtr standard length heavy duty (C Class) as per IS 1239 (Part-I) 1990 with latest amendments with ISI Mark (one end fitted with Heavy Duty collar and other end fitted with protective cover) 50 mm as per the direction of Engineer in charge.								
					Present Qty	**0.00**	**Each**	**3184.21**	**0.00**
PVC pipe - OD 250mm and 6 Kg/sqcm as per the direction of Engineer in charge.								
					Present Qty	**0.00**	**Rmtr**	**3915.60**	**0.00**
Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper withflexible copper with low resistance conductor confirming to IS:8130-1984 and virgin grade PVC insulation and powdercoating extruded PVC sheathed suitable for working voltageupto 1100 V as per IS-694:2010. 3C x 6 mm2 as per the direction of Engineer in charge.								
					Present Qty	**0.00**	**Rmtr**	**245.38**	**0.00**
Providing,supplying to work site, Submersible Pump Set of 150mm dia suitable for bore well and confirming to IS 8034-2000;3Phase, SS Bowl & Impeller with Low volt Motor as per specifications,as per necessary ammendments and instructions of engineer incharge of work. 15.00 HP - 120 LPM @ 266 m = 23 STG Outlet Dia - 2.00"as per the direction of Engineer in charge.								
					Present Qty	**0.00**	**Nos**	**72315.04**	**0.00**
Earthing: Supplying and fixing and wiring earth electrode for grounding circuits IC cutouts and other equipments on the meter board in the pit. The pits should be filled up with equal proportion of salt and charcoal 150mm around the pipe to complete depth. The connection from the pipe to the conduits etc. is to established through GI wire of sizes as per clause 7.3.3 of IS 732 using 12mm bolts, nuts, washers and check nuts, the pipe shall have 16 through holes of 12mm dia. as per the direction of Engineer in charge.								
					Present Qty	**0.00**	**job**	**3915.60**	**0.00**

SILICON CONSULTING ENGINEERS Consultant

Asst.Engineer

Asst.Exec.Engineer

Asst. Executive Engineer
Project Division

Description of Item	No	Length	Avg B	Depth	Qty	Unit	Rate	Amount
Supply and fixing polished wood board made of not lessthan 15mm thick plank on both sides of the board not more than 2pieces and fixing the same to the wall using tapered inverted wooden plugs and screws 20" x 20" x 2.5" as per the direction of Engineer in charge								
					Present Qty	0.00	Each	326.22	0.00
Supplying & fixing of Porcelain fuse channel with cut out onexisting wooden/panel using necessary nuts, bolts andwashers 63 A as per the direction of Engineer in charge								
					Present Qty	0.00	Each	378.01	0.00
Supplying & fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materialsand 'C' Type curve, indicator ON/OFF, energy cross-3 withShort circuit breaking capacity of 10K and complete wiring asrequired confirming to IEC 60898. 50 A TPN as per the direction of Engineer in charge.								
					Present Qty	0.00	Each	2431.98	0.00
Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenances required to complete the work.Loading and Unloading of Stone Boulder/Stone Aggregates/ Sand/Kankar/Moorum. (Tipper 14 m3) as per the direction of Engineer in charge.								
					Present Qty	0.00	Cum	194.22	0.00
Supplying and filling in plinth with sand under floors, foundation of Bridges including watering, ramming, consolidating and dressing complete. as per the direction of Engineer in charge								
					Present Qty	0.00	Cum	2273.76	0.00
Supplying PVC ringtite pipes conforming to IS 4985:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading unloading at both locations and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approved type, with all labour with all lead & lift including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing) etc.63mm outer dia, 6kg/sqcm & class 3 for:as per the direction of Engineer in charge.								
					Present Qty	0.00	Mtr	161.00	0.00
Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m , and lift upto 1.5 m. Including cost of all labour complete as per specifications as per the direction of Engineer in charge.								
					Present Qty	0.00	Cum	129.99	0.00

Consultant

Asst.Engineer

Asst. Executive Engineer

Asst. Executive Engineer
Project Division

Description of Item	No	Length	Avg. B	Depth	Qty	Unit	Rate	Amount
Supplying fully automatic star-delta starter unit push buttontype with suitable wires, 3 contactors, one adjustablethermal timer mounted on a common base plate held in steel enclosure for use on 400/440 V 3 phase and wired after fixingto the existing wooden board for motor. Above 12.5 HP upto 25 HP as per the direction of Engineer in charge.								
					Present Qty	**0.00**	**Nos**	**8770.00**	**0.00**

Asst.Engineer

Asst Exec.Engineer

Asst. Executive Engineer
Project Division

Name of Work: "PACKAGE No-06 Developments of roads and drains at Machohalli, Kadabagere, Kallarahatti (Kitthanahalli), Singanayakanahalli Grama Panchayathi limits and surrounding areas of Yelahanka assembly Constituency Under Amrutha Nagarothana Grants".

Detailed Measurements

Measurement Recorded On: 19-12-23

Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. G.I. pipes including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer in-Charge. 11.26.3								
Madivala Machideva sabha Bhavana								
On terrace bolcony railing	1	3.5		0.80	2.80			
	1	3.15		0.80	2.52			
Staircase Railings	1	2.8		0.80	2.24			
	1	3.25		0.80	2.60			
Gate	1	4.12		1.57	6.47			
					16.63			
Considered 29kg/Sqm					465.5952			
				Present Qty	**465.60**	**Kg**	**153.48**	**71461.56**
							Sub Total	**4264697.35**
							GST 18%	**767645.52**
							Grand Total	**5032342.87**

19/12/23
Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

20/12/23
Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Contractor

SILICON CONSULTING ENGINEERS
Consultant

Asst.Engineer

Asst.Exec.Engineer